

WHAT IS CLAIMED IS:

1. A preimpregnated main fabric (1, 1') provided with reinforcement (2) having a bottom face (F') impregnated with a first thermosetting matrix (5) and a top face (F) 5 impregnated with a second thermosetting matrix (6), wherein said first and second thermosetting matrices (5 and 6) have different physico-chemical and rheological properties, said first thermosetting matrix (5) presenting self-adhesive properties and said second thermosetting matrix (6) presenting non-self-adhesive properties.
2. A preimpregnated main fabric according to claim 1, wherein at least one of said top and bottom faces (F, F') 15 includes mistake-proofing means.
3. A preimpregnated main fabric according to claim 2, wherein said mistake-proofing means comprises a dye.
- 20 4. A preimpregnated main fabric according to claim 2, wherein said mistake-proofing means comprises a separator sheet (11) arranged on said top face (F).
- 25 5. A preimpregnated main fabric according to claim 2, wherein said mistake-proofing means comprises a separator sheet arranged on said bottom face (F').
- 30 6. A preimpregnated main fabric according to claim 2, wherein said mistake-proofing means comprises first and second removable separator sheets (11', 11'') that are different from each other, and that cover said top and bottom faces (F, F') respectively.
- 35 7. A sandwich composite structure (S) provided with a foam or honeycomb core (3) arranged between a top skin (4) and a bottom skin (4'), wherein a first ply of a preimpregnated main fabric (1) according to claim 1 is

arranged between the core (3) and the top skin (4), and
wherein a second ply of the preimpregnated main fabric
(1') is arranged between the core (3) and the bottom skin
(4'), the self-adhesive first thermosetting matrix (5) of
5 each of said first and second plies (1, 1') of
preimpregnated main fabric coming into contact with the
core (3).

8. A sandwich composite structure according to claim 7,
10 wherein the non-self-adhesive second matrix (6) of the
first and second plies (1, 1') of the preimpregnated main
fabric is identical to the matrix of the non-self-
adhesive secondary fabrics of the top and bottom skins
(4, 4').